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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,405	07/14/2003	Paul V. Cooper	23438.00040	7654
	7590 02/20/2007 DERS & DEMPSEY LL	EXAMINER		
TWO RENAISSANCE SQUARE, 40 NORTH CENTRAL AVENUE SUITE 2700 PHOENIX, AZ 85004-4498			KASTLER, SCOTT R	
			ART UNIT	PAPER NUMBER
			1742	
		<u> </u>		
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MON	NTHS	02/20/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	_			
	10/619,405	COOPER, PAUL V.				
Office Action Summary	Examiner	Art Unit				
	Scott Kastler	1742				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	DN. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 11 L	December 2006					
2a)⊠ This action is FINAL . 2b)☐ Thi	•					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-54 is/are pending in the application	٦.					
4a) Of the above claim(s) 40-54 is/are withdra	4a) Of the above claim(s) 40-54 is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-39</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.		•			
10) The drawing(s) filed on is/are: a) acc	cepted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct to the correct	* * * * * * * * * * * * * * * * * * * *	•				
11) The oath or declaration is objected to by the E	xaminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreigna) All b) Some * c) None of:	n priority under 35 U.S.C. § 119(a)-(d) or (f).				
1.☐ Certified copies of the priority documen	ts have been received.					
2. Certified copies of the priority documen		tion No				
3. Copies of the certified copies of the price	ority documents have been recei	ved in this National Stage				
application from the International Burea	au (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	t of the certified copies not receive	ved.				
A44aahaaaa4/a1						
Attachment(s) Notice of References Cited (PTO-892)	4) Interview Summa	v (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail I	Date				
B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal 6) Other:	Patent Application				

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Election/Restrictions

This application contains claims 40-54 drawn to an invention nonelected with traverse in the paper filed on 4/18/2006. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Double Patenting

Applicant is advised that should claim 14 be found allowable, claims 15 and 16 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k). The above claim s differ only in the intended use of the claimed apparatus (use as a rotor shaft in various devices) and it has been well settled that the manner or method of use of an apparatus cannot be relied upon to fairly further limit claims to the apparatus itself. See MPEP 2114.

Applicant is advised that should claim 18 be found allowable, claim 19 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k). The above claims differ only in the intended use of the claimed apparatus (use as a gas-transfer conduit in various devices) and it has been well settled that the manner or method of use of an apparatus cannot be relied upon to fairly further limit claims to the apparatus itself. See MPEP 2114.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 6-19 and 22-38 are rejected under 35 U.S.C. 102(a) as being anticipated by Grant et al'723. Grant et al teaches that it was known in the art at the time the invention was made to protect graphite components subject to a molten aluminum environment by cementing a protective sleeve of silicon carbide of uniform thickness around the graphite component with the inclusion of a gasket (the shaft coupler) between the protective coating and the graphite component (see the claims for example) where these components may be posts, rotary shafts and molten metal conduits (risers for example) (see col. 3 lines 37-45 for example) which can be employed in scrap metal melters or rotary degassers as instantly claimed (see figure 9 for example) thereby showing all limiting aspects of the above claims since the method of making the claimed protected component cannot serve to distinguish claims to the protected component itself unless applicant can present a showing, in proper form, that the process of making the protected component provides a substantially different final component from the component shown by Grant et al'723. See MPEP 2113.

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Claims 1 and 7-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Morando'753. Morando'753 teaches a protected graphite component (36) for use in molten metal pumps where the component is covered with a protective sheath (34) and with cement (44) betwee3n the sheath and component (36) showing all aspects of the above claims since the method of making the claimed protected component cannot serve to distinguish claims to the protected component itself unless applicant can present a showing, in proper form, that the process of making the protected component provides a substantially different final component from the component shown by Grant et al'723. See MPEP 2113.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art of the instant disclosure in view of either of Grant et al'723 or Morando'753. the admitted prior art of the instant disclosure at paragraphs [0003]-[0015] for example, teaches devices and components of molten metal processing showing all aspects of the above claims except the use of a protected sheath of ceramic cemented around components of graphite subject to attack by the molten metal. As applied to claim 1 above, both of Grant et al'723 and

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Morando'753 teach that it was known in the art at the time the invention was made to provide a protective sheath of ceramic cemented around components which would be subject to attack by molten metal. Because any of the graphite components disclosed in the devices taught by the admitted prior art of the instant disclosure would also desire the improved resistance to attack by molten metal, motivation to protect any or all of the components of the devices described by the admitted prior art of the instant disclosure in the manner recited by either of Grant et al'723 or Morando'753 would have been a modification obvious to one of ordinary skill in the art at the time the invention was made.

Response to Arguments

Applicant's arguments filed on 12/11/2006 have been fully considered but they are not persuasive. Applicant's argument that neither of the applied references (Grant'723 or Morando'753 teach a passage or channel through which cement could be injected is not persuasive. Firstly, the space between the two components forms a channel in both references and at least for this reason, both references meet this limitation. Secondly both of Grant (120 in fig. 3 for example) and Morando (74 in figure 4) show channels openings or passages through which cement could, if desired be injected.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Kastler whose telephone number is (571) 272-1243. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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